

## EAST Search History

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|--|---|------------------|---------|---------------------|
| S1    | 6    | ("4756422"   "5087025"   "6139004"   "6187231"   "6227541"   "RE34929").<br>PN.  | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2009/03/27<br>12:12 |
| S2    | 1091 | PUFFER-R\$.IN. DERBY-S\$.<br>IN. SAUNDERS-G\$.IN.<br>HOPPE-G\$.IN. COURTOIS-L<br>\$.IN. PAWLIK-J\$.IN. KRAUS-<br>W\$.IN.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/03/27<br>12:14 |
| S3    | 1042 | S2 NOT (MEA "MEMBRANE<br>ELECTRODE" (FUEL ADJ<br>(cELL BATTERY)))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/03/27<br>12:20 |
| S4    | 49   | S2 NOT S3  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/03/27<br>12:21 |
| S5    | 5    | 10/232424  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/03/27<br>12:24 |
| S6    | 4    | "20040042789"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/03/27<br>12:24 |
| S7    | 1    | 2004-214102.NRAN.  | DERWENT   | OR               | ON      | 2009/03/27<br>12:24 |
| S8    | 76   | ("20010031388"  <br>"3861259"   "3948425"  <br>"4000057"   "4011975"  <br>"4070951"   "4386988"  <br>"4402467"   "4411393"  <br>"4461432"   "4768410"  <br>"4913329"   "5087025"  <br>"5141212"   "5308005"  <br>"5397044"   "5505124"  <br>"5536342"   "5709352"  <br>"5784662"   "5806745"  <br>"5806746"   "5827384"  <br>"5870937"   "5938098" | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/03/27<br>12:25 |

|     |     |  |                           |    |    |                     |
|-----|-----|--|---------------------------|----|----|---------------------|
|     |     | "6030131"   "6057054"  <br>"6074692"   "6139004"  <br>"6142723"   "6152597"  <br>"6227541"   "6277447").PN.  |                           |    |    |                     |
| S9  | 53  | ("2823146"   "3297484"  <br>"4293396"   "4349428"  <br>"4360417"   "4386987"  <br>"4414092"   "4421579"  <br>"4433082"   "4581116"  <br>"4650551"   "4652356"  <br>"4654104"   "4666574"  <br>"4731263"   "4738741"  <br>"4804592"   "4826554"  <br>"4876115"   "5039389"  <br>"5186877"   "5211984"  <br>"5316871"   "5330860").PN.<br>OR ("6074692").URPN.   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/03/27<br>12:26 |
| S10 | 34  | ("3953566"   "4350608"  <br>"4465533"   "4469579"  <br>"4876115"   "5116800"  <br>"5211984"   "5230849"  <br>"5234777"   "5272017"  <br>"5316871"   "5330860"  <br>"5409588"   "5470448"  <br>"5518831"   "5547551"  <br>"5599614"   "5635041"  <br>"5707755"   "5723173"  <br>"5738905"   "5858264"  <br>"5937512"   "5981097"  <br>"6054230"   "6074692"  <br>"6127059"   "6127061"  <br>"6180163"   "6197147"  <br>"6391486"   "6641862").PN.<br>OR ("6933003").URPN. | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/03/27<br>12:28 |
| S11 | 1   | 2005-765729.NRAN.  | DERWENT                   | OR | ON | 2009/03/27<br>13:30 |
| S12 | 1   | 2004-214102.NRAN.  | DERWENT                   | OR | ON | 2009/03/27<br>13:30 |
| S13 | 164 | ("20020064593"  <br>"20020136940"  <br>"20020144394"  <br>"20030022054"  <br>"20030054218"  <br>"20030148159"  <br>"20030198849"  <br>"20030219645"  <br>"20040053100"  <br>"20040086632"  <br>"20040241519"  <br>"20050067345"  <br>"20050118493"   "2823146"<br>  "3134696"   "3297484"  <br>"3953566"   "4161815"  <br>"4215183"   "4286907"  <br>"4293396"   "4349428"  <br>"4350608"   "4360417"  <br>"4383010"   "4386987"   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/03/27<br>13:32 |

|     |     |   |                           |    |    |                     |
|-----|-----|---|---------------------------|----|----|---------------------|
|     |     | "4414092"   "4421579"  <br>"4433082"   "4437952"  <br>"4465533"   "4469579"  <br>"4569730"   "4579612"  <br>"4581116"   "4620826"  <br>"4650551"   "4652356"  <br>"4654104"   "4666574"  <br>"4668148"   "4731263"  <br>"4738741"   "4804592"  <br>"4826554"   "4876115"  <br>"4954033"   "5010050"  <br>"5039389"   "5104116"  <br>"5116800"   "5146391"  <br>"5186877"   "5211984"  <br>"5224405"   "5230849"  <br>"5234777"   "5242764"  <br>"5272017"   "5316871"  <br>"5318863"   "5330860"  <br>"5336570"   "5409588"  <br>"5415888"   "5470448"  <br>"5494550"   "5518831"  <br>"5547551"   "5561202"  <br>"5599614"   "5635041"  <br>"5645932"   "5693434"  <br>"5700300"   "5707755"  <br>"5723086"   "5723173"  <br>"5738905"   "5761793"  <br>"5858264"   "5861222"  <br>"5871860"   "5937512"  <br>"5945231"   "5981097"  <br>"5998057"   "6010771"  <br>"6015635"   "6054230"  <br>"6057054"   "6074692"  <br>"6127059"   "6127061"  <br>"6156449"   "6180163"  <br>"6197147"   "6383556"  <br>"6391486"   "6395043"  <br>"6403245"   "6465136"  <br>"6500217"   "6641862"  <br>"6645336"   "6649295"  <br>"6753108"   "6855178"  <br>"6967038"   "6977234"  <br>"6998149").PN. OR<br>("2004/0042789"  <br>"2005/0236765"  <br>"2006/0022081"  <br>"2008/0042003"  <br>"6074692"   "6139004"  <br>"6197147"   "6641862"  <br>"6933003"   "6967038"  <br>"6998149"   "7316794").<br>URPN. |                           |    |    |                     |
| S14 | 167 | ("3728191"   "3828367"  <br>"4242167"   "4285747"  <br>"4394898"   "4394933"  <br>"4608115"   "4645063"  <br>"4696715"   "Re330063").<br>PN. OR ("5104116").URPN.   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/03/27<br>13:58 |

|     |     |   |                           |    |    |                     |
|-----|-----|---|---------------------------|----|----|---------------------|
| S15 | 11  | ("3096977"   "3689065"  <br>"4394898"   "6116317"  <br>"6139004"   "6325201"  <br>"6336492").PN. OR<br>("6604623").URPN.  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/03/27<br>14:04 |
| S16 | 101 | ("20020014509"  <br>"20020050200"  <br>"20020134501"  <br>"20020136940"  <br>"20030145697"  <br>"20030158273"  <br>"20030221311"  <br>"20040161655"  <br>"20050126407"   "2710234"<br>  "3178041"   "3285112"  <br>"3291282"   "3359046"  <br>"3380788"   "3477558"  <br>"3539177"   "3785638"  <br>"3861259"   "3946920"  <br>"4112827"   "4143871"  <br>"4168772"   "4200016"  <br>"4236814"   "4286467"  <br>"4360260"   "4362380"  <br>"4381596"   "4428793"  <br>"4534549"   "4591139"  <br>"4636276"   "4668324"  <br>"4676862"   "4720227"  <br>"4728093"   "4784380"  <br>"4818312"   "4819928"  <br>"4887858"   "5031002"  <br>"5048182"   "5061337"  <br>"5063415"   "5078375"  <br>"5133543"   "5140872"  <br>"5256030"   "5334431"  <br>"5366174"   "5456871"  <br>"5516704"   "5556499"  <br>"5588967"   "5596897"  <br>"5601682"   "5723228"  <br>"5761793"   "5762753"  <br>"5783024"   "5788796"  <br>"5791185"   "5810350"  <br>"5899341"   "5910378"  <br>"5989386"   "5989747"  <br>"6007660"   "6042959"  <br>"6059003"   "6066409"  <br>"6159327"   "6197147"  <br>"6210524"   "6224203"  <br>"6241839"   "6347585"  <br>"6365293"   "6405779"  <br>"6419217"   "6432571"  <br>"6500217"   "6528191"  <br>"6547229"   "6737183"  <br>"6742561"   "6796353"  <br>"6855178"   "7081180"  <br>"7105244"   "RE37366").<br>PN. OR ("7195690").URPN. | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/03/27<br>14:09 |

|     |       |   |   |    |    |                     |
|-----|-------|---|---|----|----|---------------------|
| S17 | 100   | ("20020014509"  <br>"20020050200"  <br>"20020134501"  <br>"20020136940"  <br>"20030145697"  <br>"20030158273"  <br>"20030221311"  <br>"20040161655"  <br>"20050126407"   "2710234"<br>  "3178041"   "3285112"  <br>"3291282"   "3359046"  <br>"3380788"   "3477558"  <br>"3539177"   "3785638"  <br>"3861259"   "3946920"  <br>"4112827"   "4143871"  <br>"4168772"   "4200016"  <br>"4236814"   "4286467"  <br>"4360260"   "4362380"  <br>"4381596"   "4428793"  <br>"4534549"   "4591139"  <br>"4636276"   "4668324"  <br>"4676862"   "4720227"  <br>"4728093"   "4784380"  <br>"4818312"   "4819928"  <br>"4887858"   "5031002"  <br>"5048182"   "5061337"  <br>"5063415"   "5078375"  <br>"5133543"   "5140872"  <br>"5256030"   "5334431"  <br>"5366174"   "5456871"  <br>"5516704"   "5556499"  <br>"5588967"   "5596897"  <br>"5601682"   "5723228"  <br>"5761793"   "5762753"  <br>"5783024"   "5788796"  <br>"5791185"   "5810350"  <br>"5899341"   "5910378"  <br>"5989386"   "5989747"  <br>"6007660"   "6042959"  <br>"6059003"   "6066409"  <br>"6159327"   "6197147"  <br>"6210524"   "6224203"  <br>"6241839"   "6347585"  <br>"6365293"   "6405779"  <br>"6419217"   "6432571"  <br>"6500217"   "6528191"  <br>"6547229"   "6737183"  <br>"6742561"   "6796353"  <br>"6855178"   "7081180"  <br>"7105244"   "RE37366").<br>PN. OR ("7432009").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/03/27<br>14:10 |
| S18 | 18179 | (vacuum suction suck\$4)<br>near5 (membrane electrolyt<br>\$4)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>14:17 |

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|-----|-------|--|---|----|----|---------------------|
| S19 | 17215 | S18 not (fuel adj (cell battery))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>14:18 |
| S20 | 964   | S18 not S19  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>14:18 |
| S21 | 543   | drum with (electrolyt\$4 membrane polymer ionomer) with (vacuum suck \$4 suction\$3) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>14:46 |
| S22 | 536   | S21 not (fuel adj (cell battery))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>14:46 |
| S23 | 7     | S21 not S22  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>14:47 |
| S24 | 1530  | 427/115.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>14:47 |
| S25 | 63    | S24 and (suck\$4 suction\$4)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>14:48 |
| S26 | 12    | ("3239367"   "3539384"   "3652332"   "3682133"   "3704164").PN. OR ("3784406").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/03/27<br>14:50 |
| S27 | 172   | pemeas   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>15:13 |

|     |       |  |   |    |    |                     |
|-----|-------|--|---|----|----|---------------------|
| S28 | 1     | 10/525805  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>15:18 |
| S29 | 1     | S28 and table  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>15:18 |
| S30 | 11338 | (vacuum suck\$4 suction)<br>near2 (table platform)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>15:28 |
| S31 | 11243 | S30 not (fuel adj (cell<br>battery))   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>15:29 |
| S32 | 95    | S30 not S31  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>15:29 |
| S33 | 21    | ("4286907"   "4620826"  <br>"4668148"   "4954033"  <br>"5104116"   "5224405").PN.<br>OR ("6139004").URPN.                | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/03/27<br>15:52 |
| S34 | 11    | ("3096977"   "3689065"  <br>"4394898"   "6116317"  <br>"6139004"   "6325201"  <br>"6336492").PN. OR<br>("6604623").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/03/27<br>15:55 |
| S35 | 27    | ("4124429"   "5048818"  <br>"5104116"   "5112041"  <br>"5224405"   "5333851"  <br>"5571354").PN. OR<br>("6227541").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/03/27<br>16:06 |
| S36 | 934   | 271/79,188,196,83.ccls.  | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/03/27<br>16:09 |
| S37 | 934   | S36 not (fuel adj (Cell<br>battery))   | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/03/27<br>16:09 |
| S38 | 39401 | "271"/\$.ccls. not (fuel adj<br>(Cell battery))  | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/03/27<br>16:09 |
| S39 | 39403 | "271"/\$.ccls.   | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/03/27<br>16:09 |

|     |      |                                      |   |    |    |                     |
|-----|------|--------------------------------------|---|----|----|---------------------|
| S40 | 2    | S39 not S38                          | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/03/27<br>16:10 |
| S41 | 2    | S24 and (negative adj2<br>pressure)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>16:10 |
| S42 | 3    | celanse\$.as.                        | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>16:12 |
| S43 | 8409 | celanese\$.as.                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>16:12 |
| S44 | 745  | celanese\$gmbh\$.as.                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>16:12 |
| S45 | 8269 | S43 not (fuel adj (Cell<br>battery)) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>16:13 |
| S46 | 140  | S43 not S45                          | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>16:13 |
| S47 | 318  | S24 and (drum roll roller)           | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>16:14 |
| S48 | 303  | S47 not S25                          | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>16:14 |



|     |         |   |   |    |    |                     |
|-----|---------|---|---|----|----|---------------------|
| S49 | 8610134 | peel\$4 remov\$4 transfer\$4  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>16:20 |
| S50 | 36667   | S49 near7 (ionomer ((ion\$4<br>proton\$4) near2<br>membrane) electrolyt\$4) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/27<br>16:21 |
| S51 | 11127   | S50   | FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                               | OR | ON | 2009/03/27<br>16:21 |
| S52 | 2308    | S51 and (h01m\$.ipc. h01m\$.<br>ipcr.)                                      | FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                               | OR | ON | 2009/03/27<br>16:22 |
| S53 | 83      | S52   | EPO   | OR | ON | 2009/03/27<br>16:22 |
| S54 | 1396    | S52   | DERWENT   | OR | ON | 2009/03/27<br>16:28 |
| S55 | 1396    | S54 not S53   | DERWENT   | OR | ON | 2009/03/27<br>16:29 |
| S56 | 829     | S52   | JPO   | OR | ON | 2009/03/27<br>16:29 |

**3/ 28/ 2009 9:55:06 AM**

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